Marwadi University
Marwadi Chandarana Group

Data Science Club

Student Club by

Department of Information and Communication Technology
Faculty of Technology
Marwadi University

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Club Objective

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- The Data Science club has been established to create the awareness about the importance of Data Science/Data Analytics
- The club intends to prepare the students with high technical abilities and skills which can allow them to perform their roles efficiently and raise their skills in areas of Data Science in order to achieve the best career opportunities and self-professional excellence.
- This club will impart the professional knowledge and skills for Artificial Intelligence Domain which will help students achieve better career prospects.

Club Outcomes

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1. To provide a platform to the students and community to learn, shape, and network, bringing them together with industry experts and allowing them to engage in hands-on, data science interdisciplinary projects.

2. Swift exchange of ideas, information and knowledge pertaining to Data Science among club members that equips the students for the professional skills and tools

3. Ensure that every student receives a fulfilling learning experience that involves industry-approved cutting-edge Data Science practices and technological tools.

4. To provide hands-on experience through, discussion, events, program simulations, and guest speakers in the focused areas of data science and AI.

5. To help students familiarise themselves with the frameworks, workflows and best practices.

Club Activities (1/2)

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- Learn the voice of data-Data Pre-processing and Data Visualization
- See through different types of data: Numbers, Text, Image, Video, and Audio
- Learning the statistical analysis concepts
- Learning Data Analysis through Microsoft Excel
- Learning to design the live dashboard using the complex data
- Hands-on implementation and statistical inference with Hypothesis testing using R programming
- Implementing the python libraries like Numpy, SkLearn, Pandas, MatplotLib, Keras, Scipy, Seaborn, etc.
- Mining Information through webpages and analysing them
- Integrating SQL qith Python for data analysis
- Learning to deal with Big Data and its associate tools
- Learn different ML and Deep Learning Models to play with data

Club Activities (2/2)

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- Introduction to Natural Language Processing with hands-on training over real world problem definition
- Introduction to Recommendation Systems with hands-on training over real world problem definition
- Time Series Analysis, Forecasting and Cluster Analysis
- Learning to integrate with GPUs and Parallel Processing the tasks
- Design an AI-enabled solution and deploy in the real-world problems
- Organising Webinars or talks about recent technologies in the field.
- Conducting Hackathons & Contests.

And many more…

NOTE: Atleast 10 activities will be carried out based on the targeted students and their current level of learning of curriculum.

Benefits to the Members

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1. Workshops and Hands-On training Sessions
2. Mentoring
3. Hackathon/Competition Supports
4. Interactions with the experts
5. Industry Visits
6. Placement Support to the Members

And many more…

Skills to Master

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- Data Analysis
- Data Wrangling
- Data Visualization
- Statistical Analysis
- Microsoft Excel
- Tableau
- R Programming
- Python Programming
- SQL
- Forecasting
- Big Data
- Data Mining

Club Activity Rules (1/2)

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1. There should be plan-out of atleast 12 hands-on training sessions with 4+ expert talks and hackathon event within the club as well as through-out the university, in a year.
2. The club should conduct the assessments, training activities in-consultation with the industries.
3. The club should engage and coordinate with the industries to design the training sessions, assessments, design problem statements based on the industrial requirements, etc. to give the students an exposure to the industrial requirements and make them placement-ready.
4. There should be planned expert-talks from alumni, industries or leading academicians that can motivate the students.
5. Regular engagement of the students should be done by the core committee of the club.
6. The role of the pseudo committee will be to support the core committee in the engagement process of the events planned for the students.
7. The annual membership fee of the student in a club is **Rs. 100**, which needs to be utilized for the club activities only, and the proof needs to be transparent among the participants.
8. The positions will be on the rolling basis, which will be done every six months depending on the sincerity, dedication and work ethics of the candidate.

Club Activity Rules (2/2)

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9. The club should extend their hands in guiding the students and motivate them in taking parts in different competitions and fellowship exams.
10. The Running Trophy will be given to the “best performer” from each club, every month.
11. Issuing the Digital Badge, Certificate and physical Sticker of the best performer will be given to the student.
12. Winner from the major competition may be awarded with the trophies.
13. Digital Certificate of the participation in Data Science Club, will be issued to each of the members based on their regularity in the activities.
14. The final decision lies in the hands of Faculty Coordinator, Overall Club coordinator and Head of Department.

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